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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference 31222-WO-U			nt's file reference	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
International application No. PCT/BE 03/00195				International filing date (day/month/y	ear)	Priority date (day/month/year) 18.11.2002	
	national D53/2		nt Classification (IPC) or be	oth national classification a	nd IPC	 1		
Appli ATL		OPC	O AIRPOWER					
1.	This Autho	intern ority a	national preliminary exam and is transmitted to the	mination report has been applicant according to	n prepared Article 36.	by this Inte	mational Preliminary Examir	ning
2.	2. This REPORT consists of a total of 4 sheets, including this cover sheet.							
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
	Ines	e anr	nexes consist of a total of	or sneets.				
3.	This			elating to the following it	ems:			
	1 1[Basis of the opinion Priority	• •				
	11)		•	opinion with regard to n	ovelty, inve	entive step a	and industrial applicability	
	IV		Lack of unity of invent	,	•	•		
	٧	Ø	Reasoned statement citations and explanat	under Rule 66.2(a)(ii) witions supporting such st	th regard t atement	o novelty, in	ventive step or industrial ap	plicability;
	VI		Certain documents cit	ted	•			
	VII	. 🗆		international application				
	VIII		Certain observations	on the international app	ication			
Date	of sub	missio	on of the demand		Date of co	mpletion of the	nis report	
	04.20				26.08.2	·		
			g address of the internation	nal	Authorize	d Officer		spiches Petentes,
preli	minary	Eu NL	Īning authority: ropean Patent Office - P.B 2280 HV Rijswijk - Pays I	Bas	Bogaeri	s, M		(0)
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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 Basis of th 	ıe report
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages	
	1-15		as originally filed
	Clai	ms, Numbers	
		•	an administrational
	1-15	•	as originally filed
	Dra	wings, Sheets	
	1/2-2	2/2	as originally filed
2.	With lang	n regard to the langua suage in which the inte	age, all the elements marked above were available or furnished to this Authority in the ernational application was filed, unless otherwise indicated under this item.
	The	se elements were ava	ailable or furnished to this Authority in the following language: , which is:
		the language of a tra	nslation furnished for the purposes of the international search (under Rule 23.1(b)).
		the language of publi	cation of the international application (under Rule 48.3(b)).
		the language of a tra Rule 55.2 and/or 55.3	nslation furnished for the purposes of international preliminary examination (under 3).
3.	With inte	n regard to any nucle rnational preliminary e	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:
		contained in the inter	national application in written form.
		filed together with the	e international application in computer readable form.
		furnished subsequen	atly to this Authority in written form.
		furnished subsequen	ntly to this Authority in computer readable form.
		The statement that the international approximation of the international approximation of the statement of th	ne subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.
		The statement that the listing has been furnit	he information recorded in computer readable form is identical to the written sequence ished.
4.	The	amendments have re	esulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:

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5. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N) Yes: Claims 1-15

No: Claims

Inventive step (IS) Yes: Claims 1-15

No: Claims

Industrial applicability (IA) Yes: Claims 1-15

No: Claims

2. Citations and explanations

see separate sheet

Ad V:

Reference is made to the following document:

D1: US-A-6470693

The subject-matter of independent claim 1 differs from D1 in that cooler-condenser and reheater are disposed in a single pressure vessel and in that the cooler-condenser is a direct contact heat exchanger.

The use of a direct contact heat exchanger avoids the need for a cooler which has to resist to the high pressure of the compressed gas and reduces pressure loss.

The problem of reducing pressure loss and of avoiding expensive gas coolers has been solved in a non obvious way. None of the available prior art documents discloses the combination of direct gas cooler, drain and reheater as claimed, nor does the prior art give a hint which would lead the skilled person to such a combination.

The application meets the requirements of Art. 33 PCT.